

Title (en)

APPARATUS FOR URGING A ROTATABLE MEMBER TO A NEUTRAL CIRCUMFERENTIAL POSITION

Publication

EP 0222565 A3 19881005 (EN)

Application

EP 86308513 A 19861031

Priority

JP 24772385 A 19851105

Abstract (en)

[origin: EP0222565A2] Apparatus for urging a rotatable member (1) to a neutral circumferential position comprising a rotatable member (1) which is rotatable about and movable axially of a shaft (7), the rotatable member (1) having at least one portion (1a) thereof which is disposed within a magnetic gap (12) between two magnetic or magnetically permeable members (5b,8b), and urging means (11a, 11b,11c,11d) for urging the rotatable member towards the neutral circumferential position characterised in that the rotatable member (1) is provided with pieces of magnetically permeable material (11a,11b,11c,11d) each of which, when the rotatable member (1) is in the neutral circumferential position, is disposed adjacent a respective circumferential end of said gap (12) and is disposed at a position such that the magnetic flux density in said gap (12) changes in the circumferential direction but does not change substantially in the axial direction, whereby the rotatable member, when moved away from the neutral circumferential position, is urged back towards the latter by the magnetic force acting on the pieces of magnetically permeable material (11a,11b, 11c,11d).

IPC 1-7

G11B 7/08

IPC 8 full level

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CPC (source: EP US)

G11B 7/0935 (2013.01 - EP US); **H02K 41/0354** (2013.01 - EP US); **H02K 2201/18** (2013.01 - EP US)

Citation (search report)

- [XP] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 312 (P-411)[2035], 7th December 1985; & JP - A - 60 140 549 (TOSHIBA) 25-07-1985 (Cat. X)
- [A] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 42 (P-265)[1479], 23rd February 1984; & JP - A 58 194 145 (SONY) 12-11-1983
- [A] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 109 (P-355)[1832], 14th May 1985; & JP - A - 59 231 744 (SEIKO DENSHI KOGYO) 26-12-1984

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EP0322462A4; US5105405A

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